

ABSTRACT OF THE DISCLOSURE

A positioner includes a cantilever arm that defines a first axis and has a first end and a second end. A support arm defines a second axis and has a first end and a second end. The support arm is attached to the cantilever arm second end. A mounting head engages the workpiece and is attached to the support arm second end. The support arm rotates around the second axis, and the cantilever arm rotates around the first axis. A counterweight is attached to the support arm to balance the workpiece. A first brake assembly engages the cantilever arm to control rotation of the cantilever arm around the first axis. A second brake assembly is disposed between the cantilever arm and the support arm and controls rotation of the support arm around the second axis. A brake actuator assembly communicates with the first and second brake assemblies and causes the first and second brake assemblies to engage or disengage the cantilever and support arms. When the brakes disengage, the workpiece is free to rotate around the first and second axes so as to permit convenient repositioning of the workpiece.